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1990. (INZZ) On the computation of bar frames according to the plastic hinge theory when considering the deformable **connecting** structures.

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**Accession number & update**

3811698, A91022630; 910100.

**Title**

On the computation of bar frames according to the plastic hinge theory when considering the deformable **connecting** structures.

**Author(s)**

[Binder-B](#); [Gebbeken-N](#); [Rothert-H](#).

**Author affiliation**

Hannover Univ, West Germany.

**Source**

GAMM 1989 Conference, Karlsruhe, Germany, 28-31 March 1989.

In: Zeitschrift-fur-Angewandte-Mathematik-und-Mechanik (East Germany), vol.70, no.4, p.245-7, 1990.

**CODEN**

ZAMMAX.

**ISSN**

ISSN: 0044-2267.

**Publication year**

1990.

**Language**

GE.

**Publication type**

CPP Conference Paper, J Journal Paper.

**Treatment codes**

T Theoretical or Mathematical.

**Abstract**

Strains at the joints of a framework due to bending moments at the **nodes** referred to the **beam** axis are determined with the quoted system of equations. The computation takes into account the plastic deformation of the joints by reducing the stiffness matrix for indicating the twist of beams by the bending moments. An example is given of a three-dimensional **beam structure** using steel with indicated proportionality limit and with fixed foot point joints. (7 refs).

**Descriptors**

[bending](#); [plastic-deformation](#).

**Keywords**

bar frames; plastic hinge theory; deformable **connecting** structures; bending moments; **beam** axis; plastic deformation; stiffness matrix; twist; three dimensional **beam structure**; steel; proportionality limit; fixed foot point joints.

**Classification codes**

A4630J (Viscoelasticity, plasticity, viscoplasticity, creep, and stress relaxation).


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 Terms used **structure** and **design** and **connecting** and **beam**

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### 1 [Creating models of truss structures with optimization](#)

Jeffrey Smith, Jessica Hodgins, Irving Oppenheim, Andrew Witkin

 July 2002 **ACM Transactions on Graphics (TOG) , Proceedings of the 29th annual conference on Computer graphics and interactive techniques**, Volume 21 Issue 3

 Full text available: [pdf\(2.99 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a method for designing truss structures, a common and complex category of buildings, using non-linear optimization. Truss structures are ubiquitous in the industrialized world, appearing as bridges, towers, roof supports and building exoskeletons, yet are complex enough that modeling them by hand is time consuming and tedious. We represent trusses as a set of rigid bars connected by pin joints, which may change location during optimization. By including the location of the joints as w ...

**Keywords:** constrained optimization, nonlinear optimization, physically based modeling, truss structures

### 2 [DEIMOS: a functional paradigm for mechanical design](#)

Daniel Ligman

 June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**

 Full text available: [pdf\(840.00 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents an expert system paradigm for mechanical design that allows control within the system to be guided by the function of the final design. A concept of functional attributes, which incorporates ideas from both functional reasoning (Freeman & Newell '71) and planning, is used to characterize an object's function. These attributes are used to guide design through a top down design paradigm. Functional attributes will produce more novel designs than a system doing routine ...

### 3 [Preference-based decision making for cooperative knowledge-based systems](#)

Stephen T. C. Wong

 October 1994 **ACM Transactions on Information Systems (TOIS)**, Volume 12 Issue 4

 Full text available: [pdf\(1.95 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Recent advances in cooperative knowledge-based systems (CKBS) offer significant promise for intelligent interaction between multiple AI systems for solving larger, more complex problems. In this paper, we propose a logical, qualitative problem-solving scheme for CKBS that uses social choice theory as a formal basis for making joint decisions and promoting conflict resolution. This scheme consists of three steps: (1) the selection of decision criteria


and competing alternatives, (2) the form ...

**Keywords:** cooperative knowledge-based systems, cooperative problem solving, decision making, social choice theory

#### 4 Data model for extensible support of explicit relationships in design databases

Joan Peckham, Bonnie MacKellar, Michael Doherty

April 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 2

Full text available:  [pdf\(2.01 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We describe the conceptual model of SORAC, a data modeling system developed at the University of Rhode Island. SORAC supports both semantic objects and relationships, and provides a tool for modeling databases needed for complex design domains. SORAC's set of built-in semantic relationships permits the schema designer to specify enforcement rules that maintain constraints on the object and relationship types. SORAC then automatically generates C++ code to maintain the specified enforcement rules ...

**Keywords:** computer-aided architectural design, database constraints, relationship semantics, semantic and object-oriented data modeling

#### 5 A fault simulation methodology for MEMS

R. Rosing, A. M. Richardson, A. P. Dorey

January 2000 **Proceedings of the conference on Design, automation and test in Europe**

Full text available:  [pdf\(819.83 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

 [Publisher Site](#)

#### 6 Structured design of microelectromechanical systems

Tamal Mukherjee, Gary K. Fedder

June 1997 **Proceedings of the 34th annual conference on Design automation - Volume 00**

Full text available:  [pdf\(134.67 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


 [Publisher Site](#)

In order to efficiently design complex microelectromechanical systems (MEMS) having large numbers of multi-domain components, a hierarchically structured design approach that is incompatible with standard IC design is needed. A graphical-based schematic, or structural, view is presented as a geometrically intuitive way to represent MEMS as a set of interconnected lumped-parameter elements. An initial library focuses on suspended-MEMS technology from which inertial sensors and other mechanical mechanisms can ...

#### 7 A computer science perspective of bridge design

Alfred Spector, David Gifford

April 1986 **Communications of the ACM**, Volume 29 Issue 4

Full text available:  [pdf\(3.51 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

What kinds of lessons does a classical engineering discipline like bridge design have for an emerging engineering discipline like computer systems design? Case-study editors Alfred Spector and David Gifford consider the insight and experience of bridge designer Gerard Fox to find out how strong the parallels are.

#### 8 Using VRML in construction industry applications

Robert Lipman, Kent Reed

February 2000 **Proceedings of the fifth symposium on Virtual reality modeling language**

**(Web3D-VRML)**Full text available:  [pdf\(945.65 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes initial research using the Virtual Reality Modeling Language (VRML97) in construction industry applications. The modeling of steel structures and construction equipment as objects for inclusion in construction-site world models was studied. The ultimate goal is to provide three-dimensional web-based technologies for managing, accessing, and viewing construction project information.

**Keywords:** VRML, computer-integrated construction, construction equipment, steel structures, virtual environments

## 9 Qualitative engineering at various levels of conception design and evaluation of structures

Bruno M. Franck

June 1989

**Proceedings of the second international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**

Full text available:  [pdf\(852.80 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


A multiple layer semantic net is proposed as a cognitive science framework to represent knowledge at various levels of abstractness. The multiple layers are qualitative at higher levels and quantitative at lower levels, and contain at all levels concepts that can be described by declarative and/or procedural statements. The semantic nets describe hierarchical knowledge associated with facts and events, and the procedures that are followed to process the information contained in the factual ...

## 10 Extraction and LVS for mixed-domain integrated MEMS layouts

Bikram Baidya, Tamal Mukherjee

November 2002

**Proceedings of the 2002 IEEE/ACM international conference on Computer-aided design**

Full text available:  [pdf\(260.07 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As design of integrated MicroElectroMechanical Systems (MEMS) matures, there is an increasing need for verification of MEMS layouts. This requires a mixed-domain LVS (layout-versus-schematic) methodology capable of extracting an integrated schematic from the mixed-domain layout and verifying it against the designed schematic. This paper reports on a prototype implementation of MEMS LVS and a MEMS extractor, which, in addition to reconstructing the extracted schematic also captures the domain-spe ...

**Keywords:** MEMS LVS, MEMS extraction, integrated MEMS, parasitics, verification

## 11 A control and management network for wireless ATM systems

Stephen F. Bush, Sunil Jagannath, Ricardo Sanchez, Joseph B. Evans, Gary J. Minden, K. Sam Shanmugan, Victor S. Frost


September 1997 **Wireless Networks**, Volume 3 Issue 4Full text available:  [pdf\(573.05 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the design of a control and management network (orderwire) for a mobile wireless Asynchronous Transfer Mode (ATM) network. This mobile wireless ATM network is part of the Rapidly Deployable Radio Network (RDRN). The orderwire system consists of a packet radio network which overlays the mobile wireless ATM network. Each network element in this network uses Global Positioning System (GPS) information to control a beamforming antenna subsystem which provides for spatial re ...

## 12 Representations for space planning

Charles M. Eastman

April 1970 **Communications of the ACM**, Volume 13 Issue 4

Full text available:  [pdf\(1.00 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


Problems involving the arrangement of objects in two- or three-space where the objective function primarily consists of derivatives of the distance between objects or their arrangement are called space planning problems. The representational requirements for this problem area are defined and compared with current computer graphic languages. Four alternative data structures that allow automated space planning are described and compared.

**Keywords:** architectural design, automated design, computer graphics, computer-aided design, datastructures, engineering design, robots

### 13 Performance evaluation of software architectures

Lloyd G. Williams, Connie U. Smith

October 1998 **Proceedings of the first international workshop on Software and performance**

Full text available:  [pdf\(2.42 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

### 14 Xanalogical structure, needed now more than ever: parallel documents, deep links to content, deep versioning, and deep re-use

Theodor Holm Nelson

December 1999 **ACM Computing Surveys (CSUR)**


Full text available:  [pdf\(787.72 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

### 15 Two-dimensional position detection system with MEMS accelerometer for MOUSE applications

Seungbae Lee, Gi-Joon Nam, Junseok Chae, Hanseup Kim, Alan J. Drake

June 2001 **Proceedings of the 38th conference on Design automation**

Full text available:  [pdf\(1.40 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A hybrid two-dimensional position sensing system is designed for mouse applications. The system measures the acceleration of hand-movements which are converted into two-dimensional location coordinates. The system consists of four major components: 1) MEMS accelerometers, 2) CMOS analog read-out circuitry, 3) an acceleration magnitude extraction module, and 4) a 16-bit RISC microprocessor. Mechanical and analog circuit simulation shows that the designed padless mouse system can detect a ...

### 16 Technical reports

SIGACT News Staff

January 1981 **ACM SIGACT News**, Volume 13 Issue 1


Full text available:  [pdf\(1.78 MB\)](#)

Additional Information: [full citation](#)

### 17 A Survey of Data Structures for Computer Graphics Systems

Robin Williams

January 1971 **ACM Computing Surveys (CSUR)**, Volume 3 Issue 1

Full text available:  [pdf\(1.67 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This is a survey of a data structures and their use in computer graphics systems. First, the reasons for using data structures are given. Then the sequential, random, and list

organizations are discussed, and it is shown how they may be used to build complex data structures. Representative samples of languages specifically designed for creating and manipulating data structures are described next. Finally some typical computer graphics systems and their data structures are described. It is a ...

### 18 Skeletal/medial axis representations: Automating the CAD/CAE dimensional reduction process

Krishnan Suresh

June 2003 **Proceedings of the eighth ACM symposium on Solid modeling and applications**

Full text available:  [pdf\(375.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Dimensional reduction is a simplification technique that eliminates one or more dimensions from a boundary value problem. It results in significant computational savings with minimal loss in accuracy. Existing dimensional reduction methods rely on a lower-dimensional geometric entity called the mid-element that is unfortunately ill defined for irregular thin solids. The main objective of this paper is to propose a new theory of 'skeletal dimensional reduction' that is superior to existing mid-ele ...

**Keywords:** CAD, CAE, dimensional reduction, engineering analysis, medial axis transforms, mid-plane, skeletal representations

### 19 A modeling approach to include mechanical microsystem components into the system simulation

R. Neul, U. Becker, G. Lorenz, P. Schwarz, J. Haase, S. Wünsche

February 1998 **Proceedings of the conference on Design, automation and test in Europe**

Full text available:  [pdf\(117.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
 [Publisher Site](#)

For MEMS devices modern technologies are used to integrate very complex components and subsystems closely together. Due to mixed-domain problems as well as the occurring interactions between the closely coupled system components the design is a sophisticated process. The interactions between the MEMS components have to be analyzed by system simulation already in an early design stage. In this paper a modeling approach is introduced that enables the incorporation of mechanical microsystem compone ...

### 20 Communication system design using ADA

Arthur G. Duncan, John S. Hutchison, John W. Bailey, Thomas M. Chapman, Andrew Fregly, Elizabeth Kruesi, Thomas McDonald, Dennis Merrill, Sylvia B. Sheppard

March 1984 **Proceedings of the 7th international conference on Software engineering**

Full text available:  [pdf\(713.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes an experiment in Ada design and some of the lessons learned from it. The experiment itself involved redesigning and reimplementing portions of an existing communication system. The paper compares the project team's design, based on traditional top-down structured design methods, with an alternative design based on information hiding. The project was intended to monitor how a typical industrial software team might adapt to using Ada on realistic emb ...

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File: PGPB

Feb 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020016697

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020016697 A1

TITLE: Method and system for supporting user in analyzing performance of object, using generalized and specialized models on computer

PUBLICATION-DATE: February 7, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nishigaki, Hidekazu	Aichi-gun		JP	
Nishiwaki, Shinji	Aichi-gun		JP	
Kojima, Yoshio	Aichi-gun		JP	
Amago, Tatsuyuki	Aichi-gun		JP	
Tsurumi, Yasuaki	Aichi-gun		JP	
Kikuchi, Noboru	Aichi-gun		JP	

US-CL-CURRENT: 702/183

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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L4: Entry 1 of 4

File: PGPB

Oct 11, 2001

PGPUB-DOCUMENT-NUMBER: 20010028625

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010028625 A1

TITLE: Optical pickup

PUBLICATION-DATE: October 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Asada, Junichi	Ibaraki-shi		JP	
Nagashima, Kenji	Suita-shi		JP	
Kayama, Hiroshi	Takatsuki-shi		JP	
Saitoh, Youichi	Hirakata-shi		JP	
Nishiwaki, Seiji	Osaka-shi		JP	

US-CL-CURRENT: 369/112.24; 369/112.28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. D
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☐ 2. Document ID: US 6496453 B2

L4: Entry 2 of 4

File: USPT

Dec 17, 2002

US-PAT-NO: 6496453

DOCUMENT-IDENTIFIER: US 6496453 B2

TITLE: Optical pickup

DATE-ISSUED: December 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Asada, Junichi	Ibaraki			JP
Nagashima, Kenji	Suita			JP
Kayama, Hiroshi	Takatsuki			JP
Saitoh, Youichi	Hirakata			JP
Nishiwaki, Seiji	Osaka			JP

US-CL-CURRENT: 369/44.23; 369/112.14, 369/112.24

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 3. Document ID: US 6264182 B1

L4: Entry 3 of 4

File: USPT

Jul 24, 2001

US-PAT-NO: 6264182

DOCUMENT-IDENTIFIER: US 6264182 B1

TITLE: Motion converting device and impact absorbing/buffering device

DATE-ISSUED: July 24, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Nishiwaki</u> ; Shinji	Gifu-ken			JP
Kikuchi; Noboru	Ann Arbor	MI		

US-CL-CURRENT: 267/141; 188/372, 188/373, 296/187.03

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 4. Document ID: US 5495462 A

L4: Entry 4 of 4

File: USPT

Feb 27, 1996

US-PAT-NO: 5495462

DOCUMENT-IDENTIFIER: US 5495462 A

TITLE: Light beam splitting apparatus

DATE-ISSUED: February 27, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Nishiwaki</u> ; Seiji	Osaka			JP
Kitagawa; Tetsuo	Moriguchi			JP
Asada; Junichi	Ibaraki			JP
Ooshima; Kiyoko	Shijyoukawate			JP

US-CL-CURRENT: 369/112.27; 369/44.12, 385/29, 385/37

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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Term	Documents
BEAM?	0

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L11: Entry 1 of 9

File: PGPB

May 20, 2004

PGPUB-DOCUMENT-NUMBER: 20040095907

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040095907 A1

TITLE: Method and apparatus for optimization of wireless multipoint electromagnetic communication networks

PUBLICATION-DATE: May 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Agee, Brian G.	San Jose	CA	US	
Bromberg, Matthew C.	Leominster	MA	US	

US-CL-CURRENT: 370/334; 370/400

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 2. Document ID: US 20030033394 A1

L11: Entry 2 of 9

File: PGPB

Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030033394

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030033394 A1

TITLE: Access and routing protocol for ad hoc network using synchronous collision resolution and node state dissemination

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stine, John A.	Manassas	CA	US	

US-CL-CURRENT: 709/222; 709/238

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 3. Document ID: US 20020077797 A1

L11: Entry 3 of 9

File: PGPB

Jun 20, 2002

PGPUB-DOCUMENT-NUMBER: 20020077797  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020077797 A1

TITLE: Method and apparatus for automated simulation and design of corneal refractive procedures

PUBLICATION-DATE: June 20, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hall, Gary W.	Phoenix	AZ	US	

US-CL-CURRENT: 703/11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 4. Document ID: US 6157621 A

L11: Entry 4 of 9

File: USPT

Dec 5, 2000

US-PAT-NO: 6157621  
DOCUMENT-IDENTIFIER: US 6157621 A

TITLE: Satelllite communication system

DATE-ISSUED: December 5, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Brown; Alison K.	Monument	CO			
Tuck; Edward Fenton	West Covina	CA			
Patterson; David Palmer	Los Altos	CA			
Lockie; Douglas Gene	Monte Sereno	CA			
Grencions; Vilnis G.	Santa Clara	CA			
Jha; Asu Ram	Cerritos	CA			
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Sturza; Mark Alan	Woodland Hills	CA			
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Liron; Moshe Lerner	Palo Alto	CA			
Wackernagel, deceased; H. Beat	late of Colorado Springs	CO			

US-CL-CURRENT: 370/310; 370/394, 370/400, 370/474

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 5. Document ID: US 5921048 A

L11: Entry 5 of 9

File: USPT

Jul 13, 1999

US-PAT-NO: 5921048

DOCUMENT-IDENTIFIER: US 5921048 A

**\*\* See image for Certificate of Correction \*\***TITLE: Three-dimensional iso-tross structure

DATE-ISSUED: July 13, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Francom; Larry R.	Price	UT		
Jensen; David W.	Mapleton	UT		

US-CL-CURRENT: 52/637; 242/437.3, 242/445.1, 52/651.11, 52/652.1, 52/665,  
52/DIG.10, 52/DIG.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 6. Document ID: US 5891131 A

L11: Entry 6 of 9

File: USPT

Apr 6, 1999

US-PAT-NO: 5891131

DOCUMENT-IDENTIFIER: US 5891131 A

TITLE: Method and apparatus for automated simulation and design of corneal  
refractive procedures

DATE-ISSUED: April 6, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rajan; Subramaniam D.	Chandler	AZ		
Mobasher; Barzin	Scottsdale	AZ		
Hall; Gary W.	Paradise Valley	AZ		

US-CL-CURRENT: 606/5; 351/212, 606/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 7. Document ID: US 5867397 A

L11: Entry 7 of 9

File: USPT

Feb 2, 1999

US-PAT-NO: 5867397

DOCUMENT-IDENTIFIER: US 5867397 A

**\*\* See image for Certificate of Correction \*\***TITLE: Method and apparatus for automated design of complex structures using  
genetic programming

DATE-ISSUED: February 2, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Koza; John R.	Los Altos Hills	CA	94022	
Bennett, III; Forrest H.	Palo Alto	CA		
Andre; David	Menlo Park	CA		

US-CL-CURRENT: 703/14; 703/2, 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw. De
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☐ 8. Document ID: US 5736959 A

L11: Entry 8 of 9

File: USPT

Apr 7, 1998

US-PAT-NO: 5736959

DOCUMENT-IDENTIFIER: US 5736959 A

TITLE: Earth-fixed cell beam management for satellite communication system using dielectric lens-focused scanning beam antennas

DATE-ISSUED: April 7, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Patterson; David Palmer	Bellevue	WA		
Sturza; Mark Alan	Woodland Hills	CA		

US-CL-CURRENT: 342/354; 342/372, 455/13.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw. De
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☐ 9. Document ID: US 5408237 A

L11: Entry 9 of 9

File: USPT

Apr 18, 1995

US-PAT-NO: 5408237

DOCUMENT-IDENTIFIER: US 5408237 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Earth-fixed cell beam management for satellite communication system

DATE-ISSUED: April 18, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Patterson; David P.	Los Altos	CA		
Sturza; Mark A.	Woodland Hills	CA		

US-CL-CURRENT: 342/354; 342/357.16, 455/12.1, 455/13.1, 455/13.2, 455/13.3,  
455/428, 455/429